KR20040099360

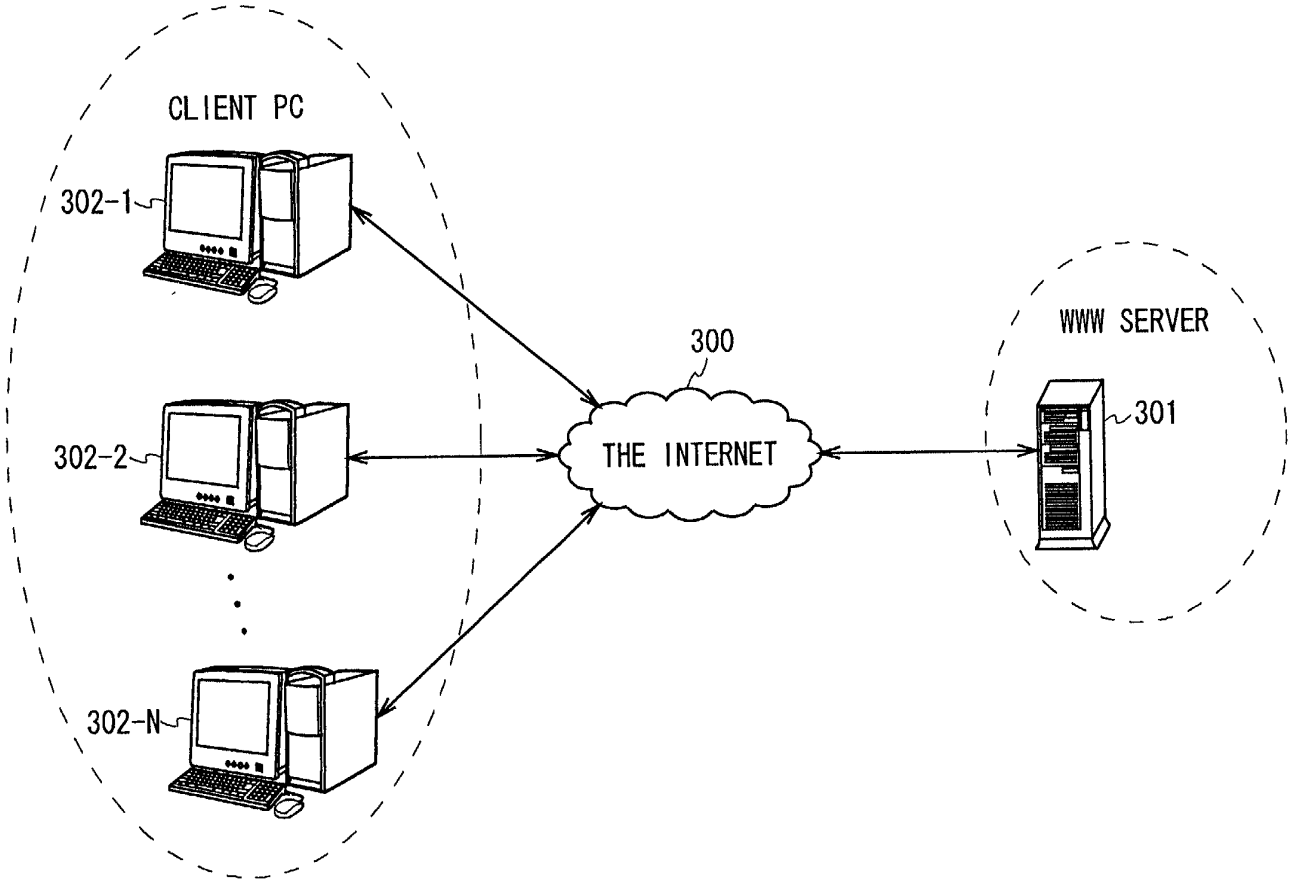

FIG. 1

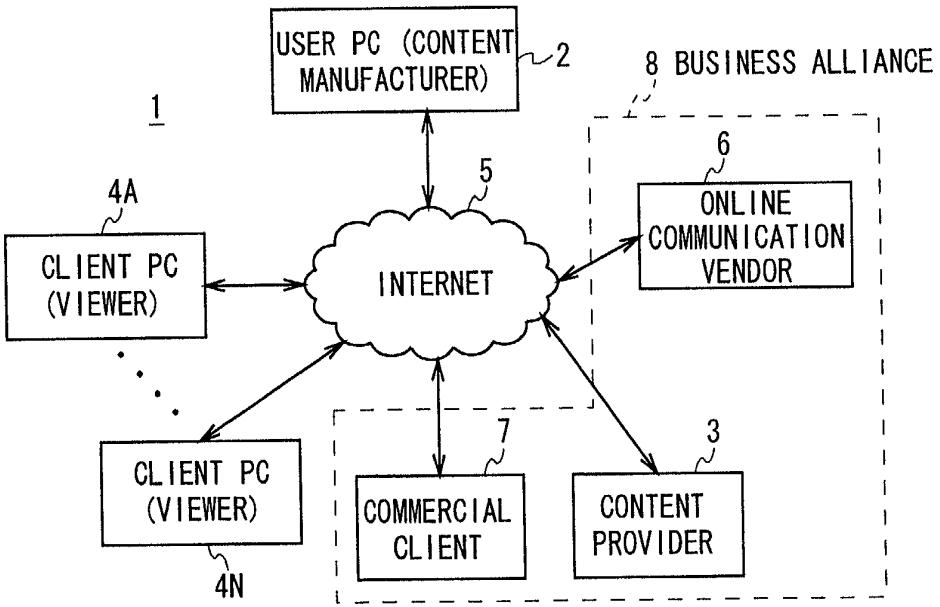
USER PC (CONTENT MANUFACTURER)
2
8 BUSINESS ALLIANCE
1
6
5
4A
ONLINE COMMUNICATION VENDOR
CLIENT PC (VIEWER)
INTERNET
CLIENT PC (VIEWER)
7
3
COMMERCIAL CLIENT
CONTENT PROVIDER
4N

FIG. 2

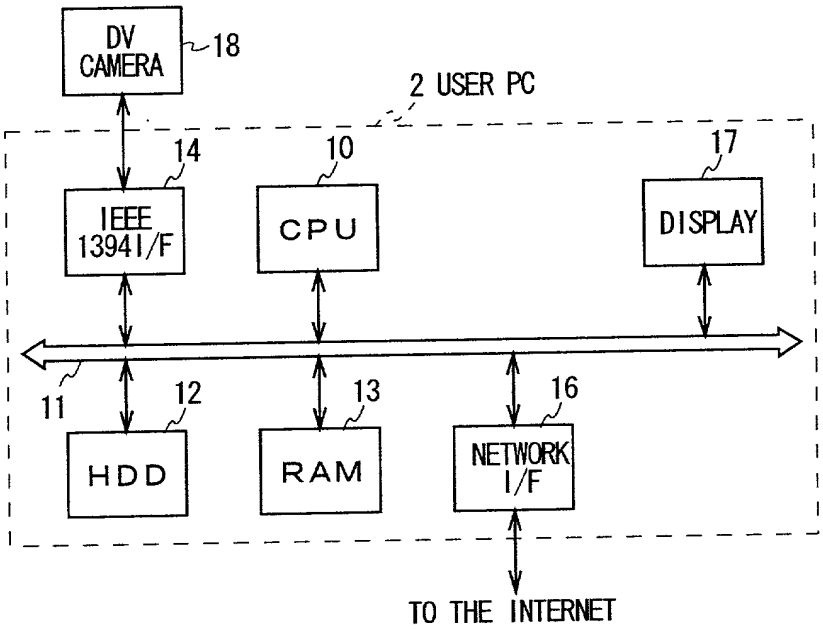
DV CAMERA
18
2 USER PC
14
10
17
IEEE 1394I/F
CPU
DISPLAY
11
12
13
16
HDD
RAM
NETWORK I/F
TO THE INTERNET

FIG. 3

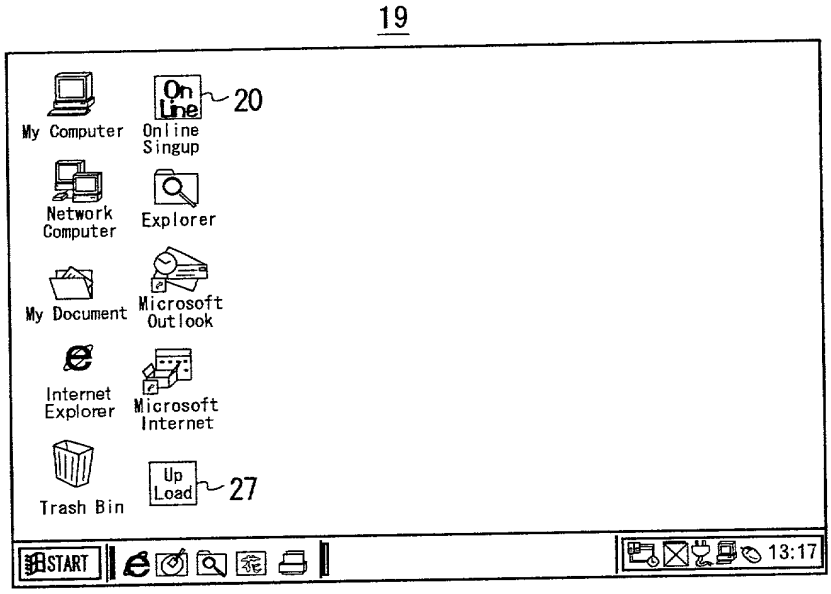
19
My Computer
On Line
20
Online Singup
Network Computer
Explorer
My Document
Microsoft Outlook
Internet Explorer
Microsoft Internet
Trash Bin
Up Load
27
START
13:17

FIG. 4

21

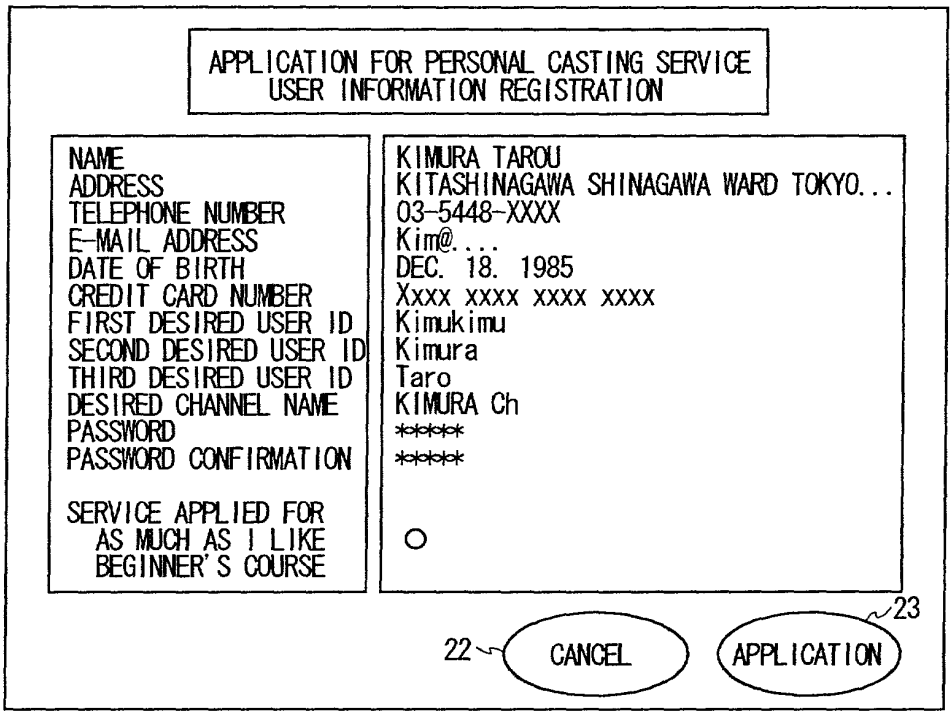

FIG. 5

25

NAME	KIMURA TAROU
ADDRESS	KITASHINAGAWA SHINAGAWA WARD TOKYO...
TELEPHONE NUMBER	03-5448-XXXX
E-MAIL ADDRESS	Kim@....
DATE OF BIRTH	DEC. 18. 1985
CREDIT CARD NUMBER	Xxxx xxxx xxxx xxxx
FIRST DESIRED USER ID	Kimukimu
SECOND DESIRED USER ID	Kimura
THIRD DESIRED USER ID	Taro
DESIRED CANNEL	KIMURA Ch
PASSWORD	*****
PASSWORD CONFIRMATION	*****
SERVICE APPLIED FOR AS MUCH AS I LIKE BEGINNER'S COURSE	○

FIG. 6

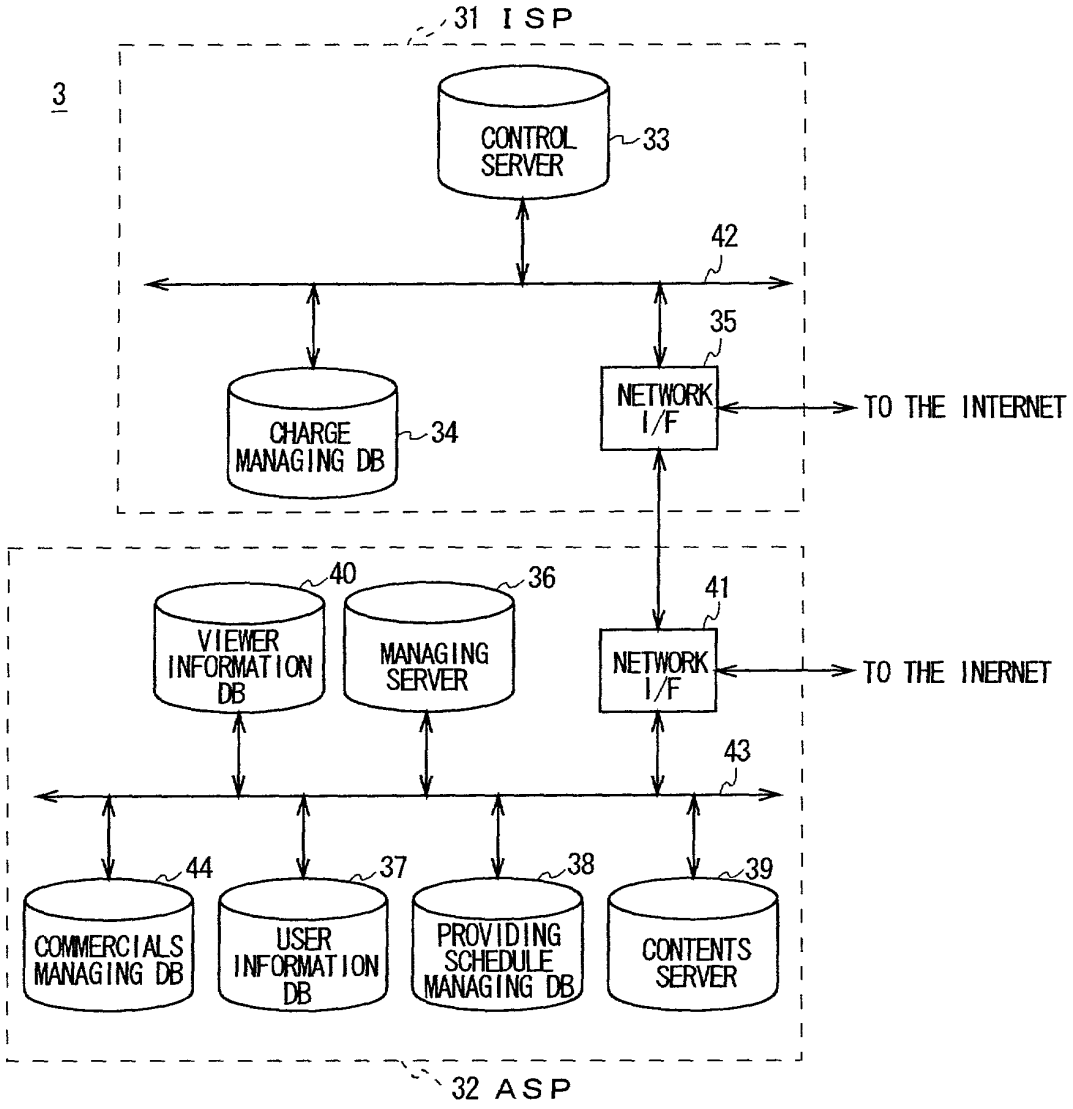
31 ISP
3
CONTROL SERVER
33
42
35
NETWORK I/F
TO THE INTERNET
CHARGE MANAGING DB
34
40
36
41
VIEWER INFORMATION DB
MANAGING SERVER
NETWORK I/F
TO THE INERNET
43
44
37
38
39
COMMERCIALS MANAGING DB
USER INFORMATION DB
PROVIDING SCHEDULE MANAGING DB
CONTENTS SERVER
32 ASP

FIG. 7

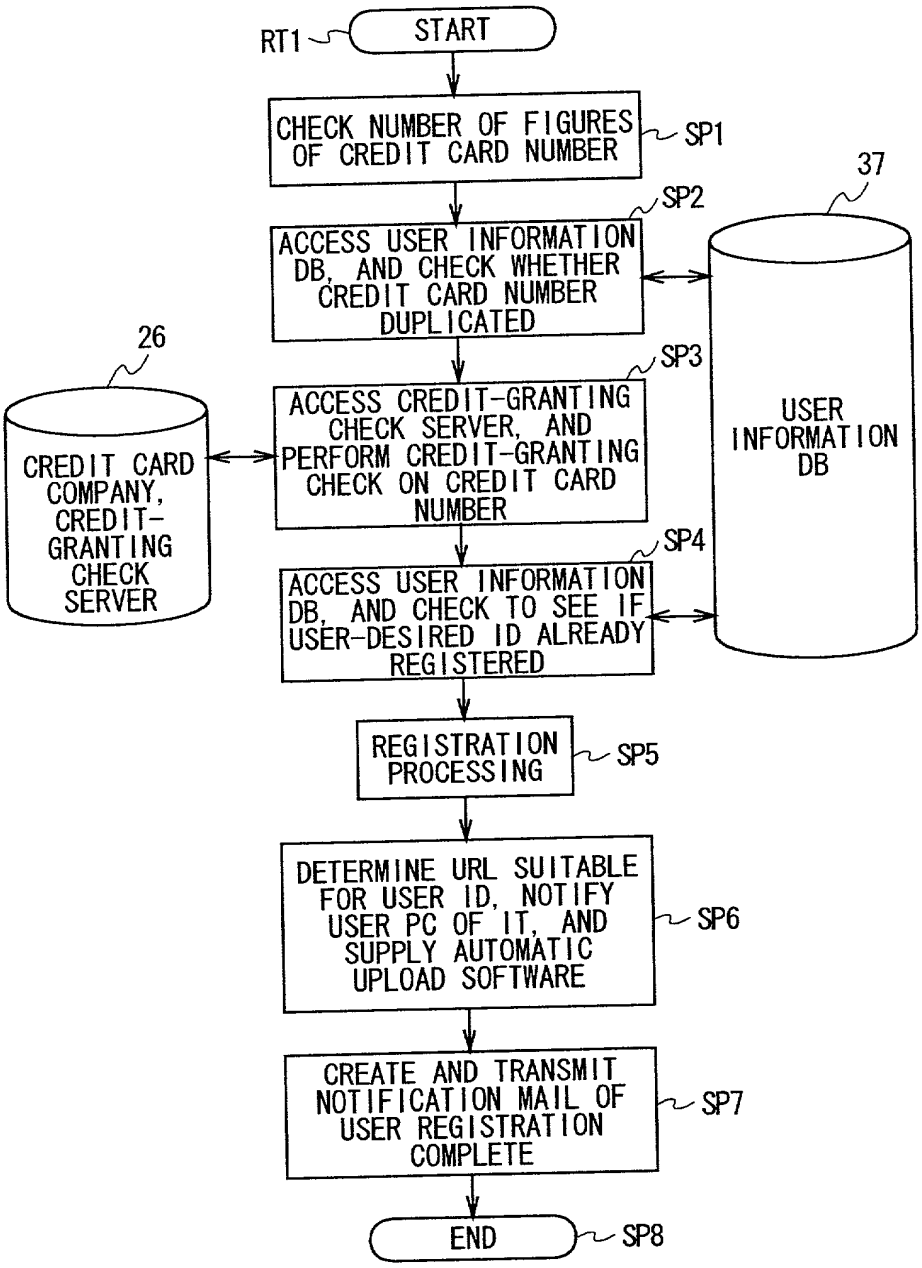
RT1
START
CHECK NUMBER OF FIGURES OF CREDIT CARD NUMBER
SP1
37
SP2
ACCESS USER INFORMATION DB, AND CHECK WHETHER CREDIT CARD NUMBER DUPLICATED
26
SP3
ACCESS CREDIT-GRANTING CHECK SERVER, AND PERFORM CREDIT-GRANTING CHECK ON CREDIT CARD NUMBER
CREDIT CARD COMPANY, CREDIT-GRANTING CHECK SERVER
USER INFORMATION DB
SP4
ACCESS USER INFORMATION DB, AND CHECK TO SEE IF USER-DESIRED ID ALREADY REGISTERED
REGISTRATION PROCESSING
SP5
DETERMINE URL SUITABLE FOR USER ID, NOTIFY USER PC OF IT, AND SUPPLY AUTOMATIC UPLOAD SOFTWARE
SP6
CREATE AND TRANSMIT NOTIFICATION MAIL OF USER REGISTRATION COMPLETE
SP7
END
SP8

FIG. 8

45

USER INFORMATION DB TABLE

USER ID:KIMUKIMU
CHANNEL NAME:KIMURA CHANNEL
URL:www//xxx.xxx.
PASSWORD:****
NAME:KIMURA TARO
ADDRESS:KITASHINAGAWA, SHINAGAWA WARD, TOKYO
TELEPHONE:03-5448-****
E-MAIL ADDRESS:kim@....
DATE OF BIRTH:DEC.18.1985
CREDIT CARD NUMBER:Xxxx xxxx xxxx xxxx
TYPE OF SERVICE APPLIED FOR:AS MUCH AS I LIKE
ACCUMULATED NUMBER OF POINTS:xxxxP
USER STATUS:STAGE 1
DATE AND TIME OF CONNECTION STARTED:
○HOURS×MINUTES△SECONDS,□DAY○MONTH
DATE AND TIME CONNECTION ENDED:
×HOURS△MINUTES□SECONDS,○DAY×MONTH,
INTERNET CONNECTION CHARGE:XXXX¥
SERVICE USER CHARGE:XXXX¥

FIG. 9

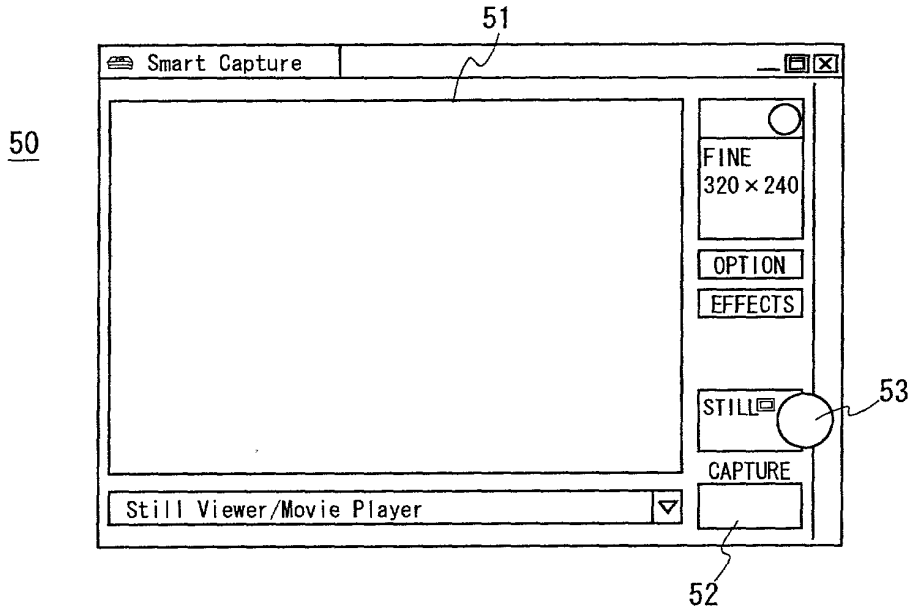

FIG. 10

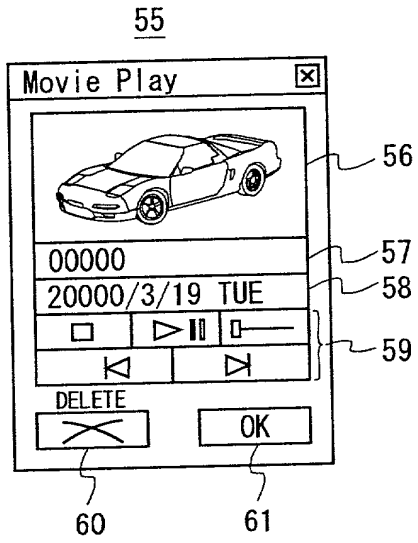
55
Movie Play
56
00000
57
20000/3/19 TUE
58
59
DELETE
OK
60
61

FIG. 11

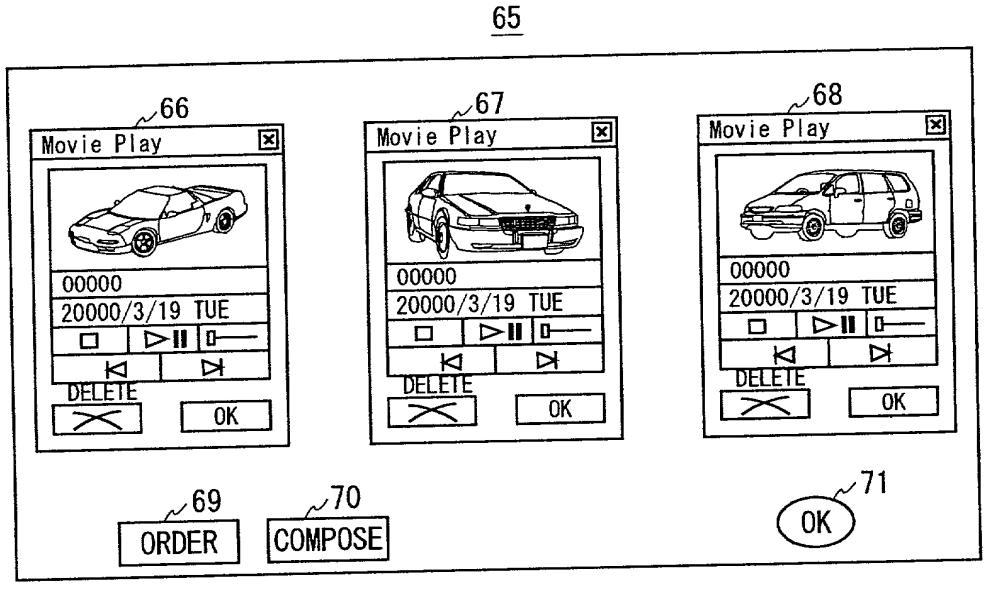
65
66
Movie Play
00000
20000/3/19 TUE
DELETE
OK
67
Movie Play
00000
20000/3/19 TUE
DELETE
OK
68
Movie Play
00000
20000/3/19 TUE
DELETE
OK
69
ORDER
70
COMPOSE
71
OK

FIG. 12

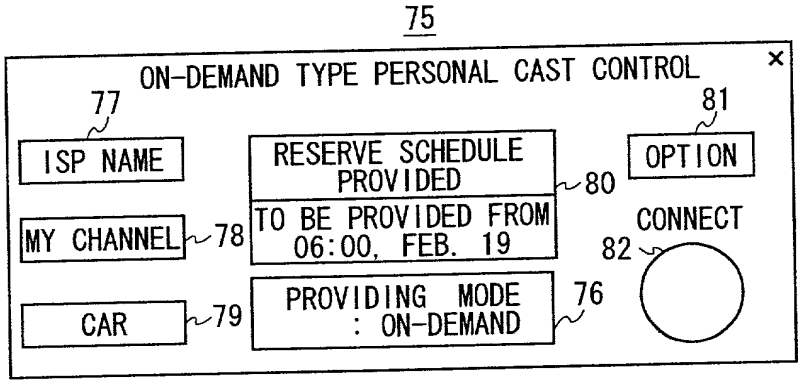
75
ON-DEMAND TYPE PERSONAL CAST CONTROL
77
ISP NAME
RESERVE SCHEDULE PROVIDED
80
81
OPTION
MY CHANNEL
78
TO BE PROVIDED FROM 06:00, FEB. 19
CONNECT
82
CAR
79
PROVIDING MODE : ON-DEMAND
76

FIG. 13

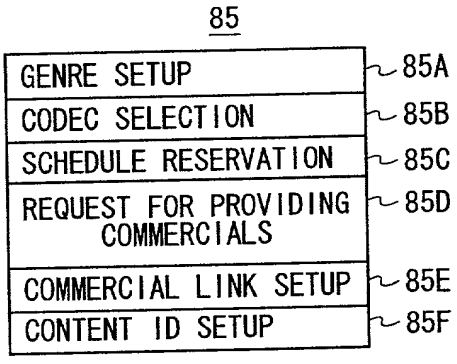
85
GENRE SETUP
85A
CODEC SELECTION
85B
SCHEDULE RESERVATION
85C
REQUEST FOR PROVIDING COMMERCIALS
85D
COMMERCIAL LINK SETUP
85E
CONTENT ID SETUP
85F

FIG. 14

EP 2 053 845 A1

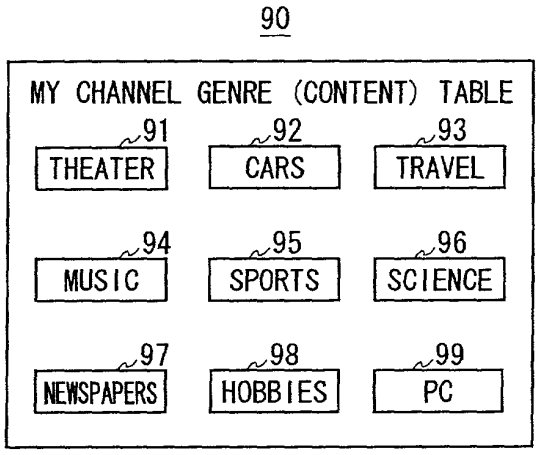

FIG. 15

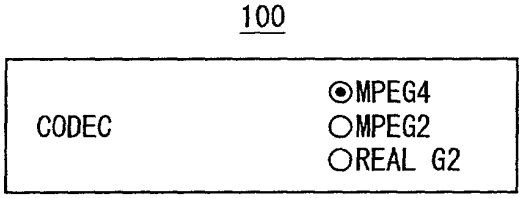

FIG. 16

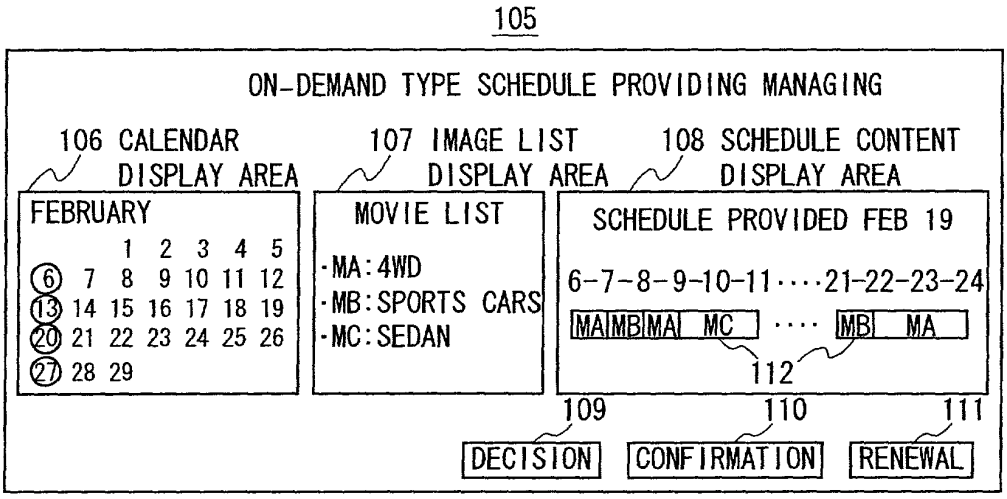

FIG. 17

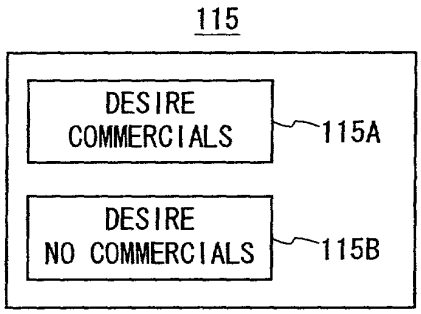

FIG. 18

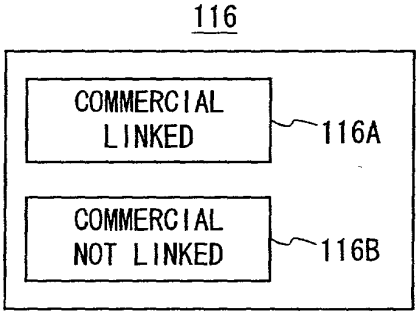

FIG. 19

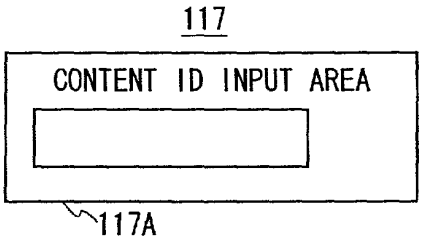

FIG. 20

120

ISP CONNECTION END	: (ISP NAME)
ASP CHANNEL	: MY CHANNEL
URL	: WWW//XXX.XXX.
CONTENT ID	: ***
CODEC	: MPEG4
IMAGE GENRE	: CARS
PROVIDING SCHEDULE	: TO BE PROVIDED FROM 6:00 FEB. 19
COMMERCIAL REQUEST	: COMMERCIAL INCLUDED
CM LINK	: COMMERCIAL NOT INCLUDED
USER ID	: KIMUKIMU
PASSWORD	: ***

FIG. 21

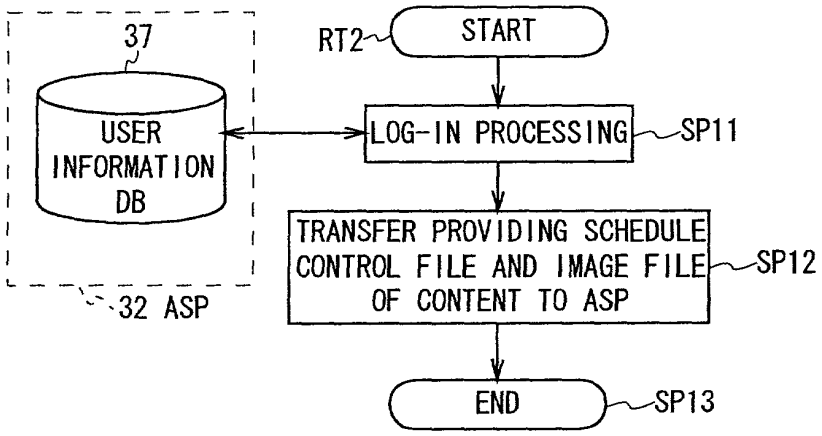

FIG. 22

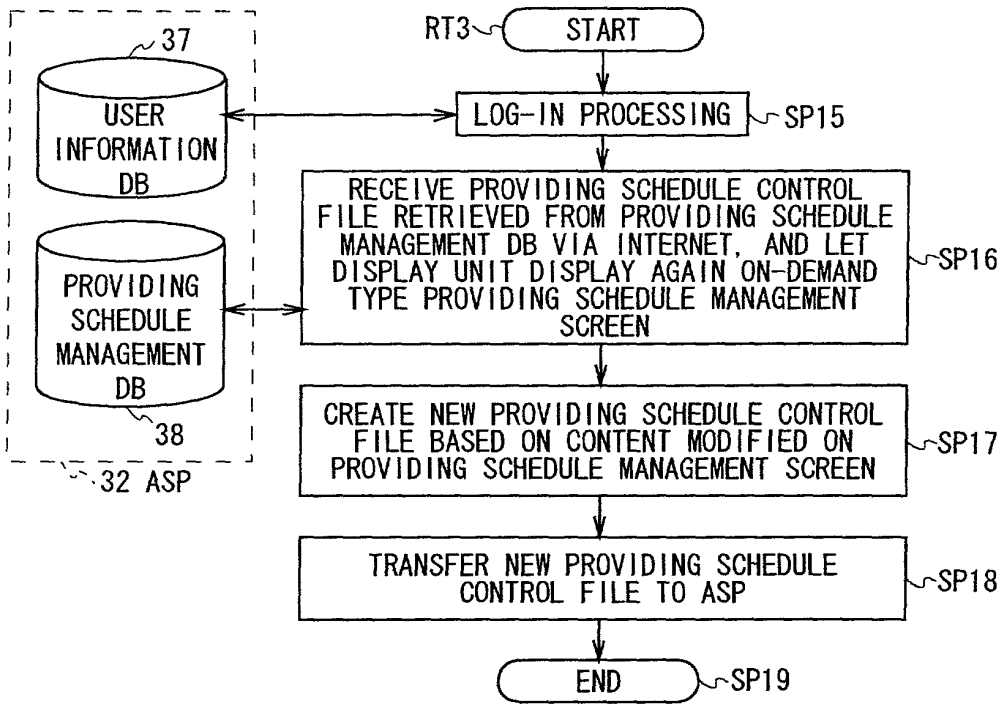
37
USER INFORMATION DB
PROVIDING SCHEDULE MANAGEMENT DB
38
32 ASP
RT3
START
LOG-IN PROCESSING
SP15
RECEIVE PROVIDING SCHEDULE CONTROL FILE RETRIEVED FROM PROVIDING SCHEDULE MANAGEMENT DB VIA INTERNET, AND LET DISPLAY UNIT DISPLAY AGAIN ON-DEMAND TYPE PROVIDING SCHEDULE MANAGEMENT SCREEN
SP16
CREATE NEW PROVIDING SCHEDULE CONTROL FILE BASED ON CONTENT MODIFIED ON PROVIDING SCHEDULE MANAGEMENT SCREEN
SP17
TRANSFER NEW PROVIDING SCHEDULE CONTROL FILE TO ASP
SP18
END
SP19

FIG. 23

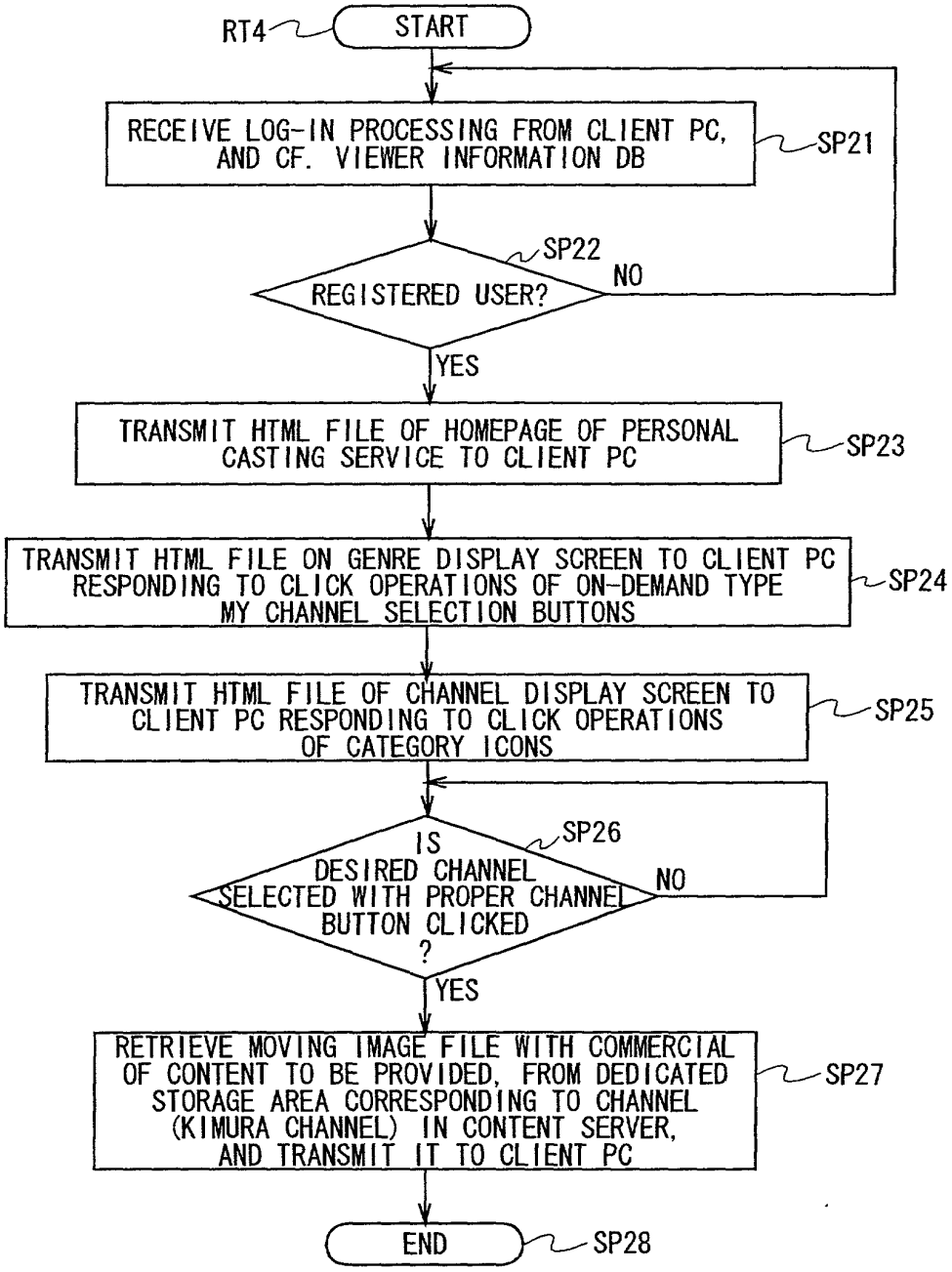
RT4
START
RECEIVE LOG-IN PROCESSING FROM CLIENT PC, AND CF. VIEWER INFORMATION DB
SP21
SP22
REGISTERED USER?
NO
YES
TRANSMIT HTML FILE OF HOMEPAGE OF PERSONAL CASTING SERVICE TO CLIENT PC
SP23
TRANSMIT HTML FILE ON GENRE DISPLAY SCREEN TO CLIENT PC RESPONDING TO CLICK OPERATIONS OF ON-DEMAND TYPE MY CHANNEL SELECTION BUTTONS
SP24
TRANSMIT HTML FILE OF CHANNEL DISPLAY SCREEN TO CLIENT PC RESPONDING TO CLICK OPERATIONS OF CATEGORY ICONS
SP25
IS DESIRED CHANNEL SELECTED WITH PROPER CHANNEL BUTTON CLICKED ?
SP26
NO
YES
RETRIEVE MOVING IMAGE FILE WITH COMMERCIAL OF CONTENT TO BE PROVIDED, FROM DEDICATED STORAGE AREA CORRESPONDING TO CHANNEL (KIMURA CHANNEL) IN CONTENT SERVER, AND TRANSMIT IT TO CLIENT PC
SP27
END
SP28

FIG. 24

125

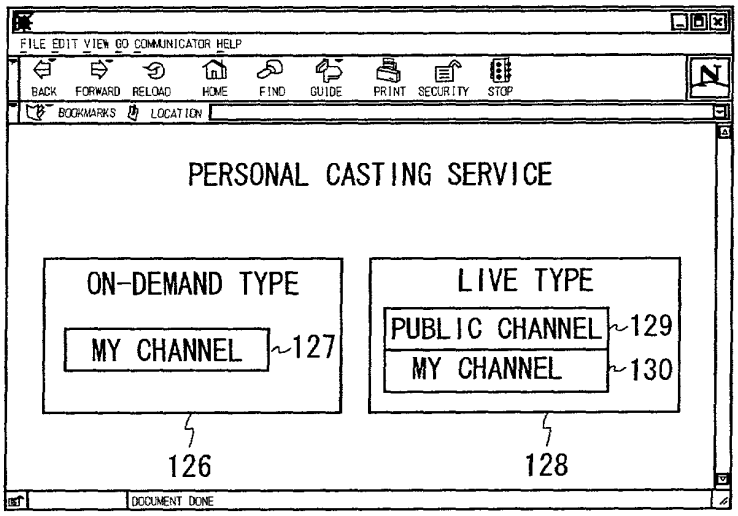

FIG. 25

135

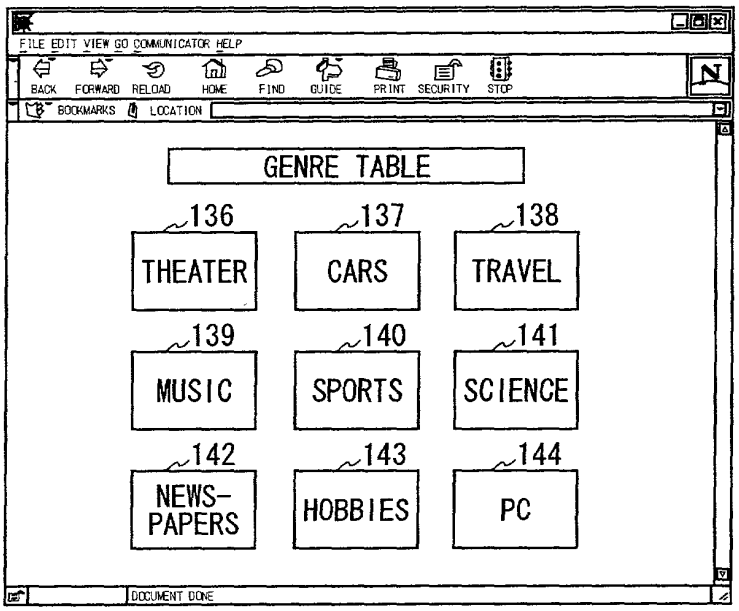

FIG. 26

1136450.050501

150

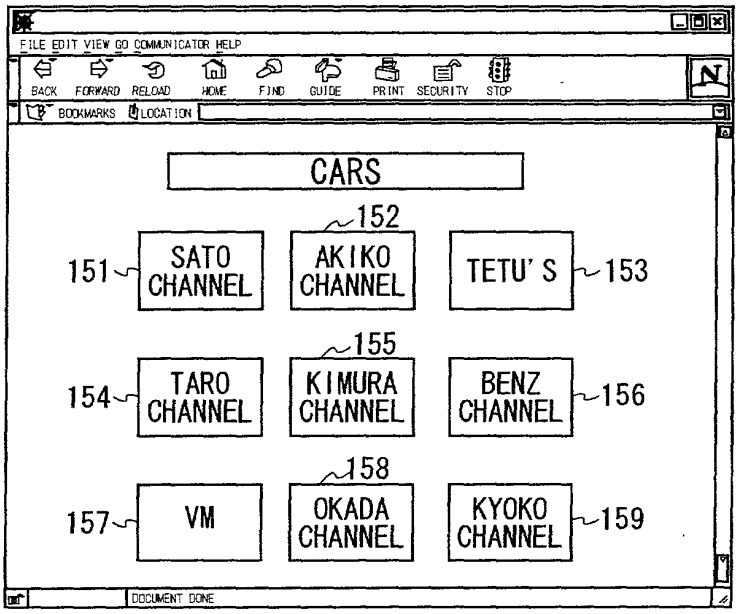

FIG. 27

165

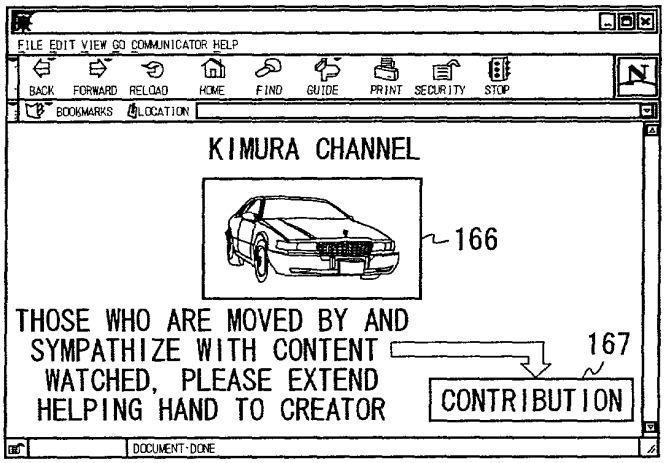

FIG. 28

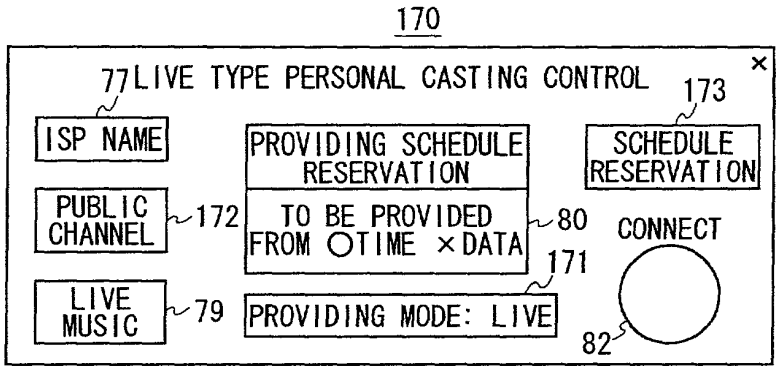
170
77LIVE TYPE PERSONAL CASTING CONTROL
173
ISP NAME
PROVIDING SCHEDULE RESERVATION
SCHEDULE RESERVATION
PUBLIC CHANNEL
172
TO BE PROVIDED FROM ○TIME ×DATA
80
CONNECT
171
LIVE MUSIC
79
PROVIDING MODE: LIVE
82

FIG. 29

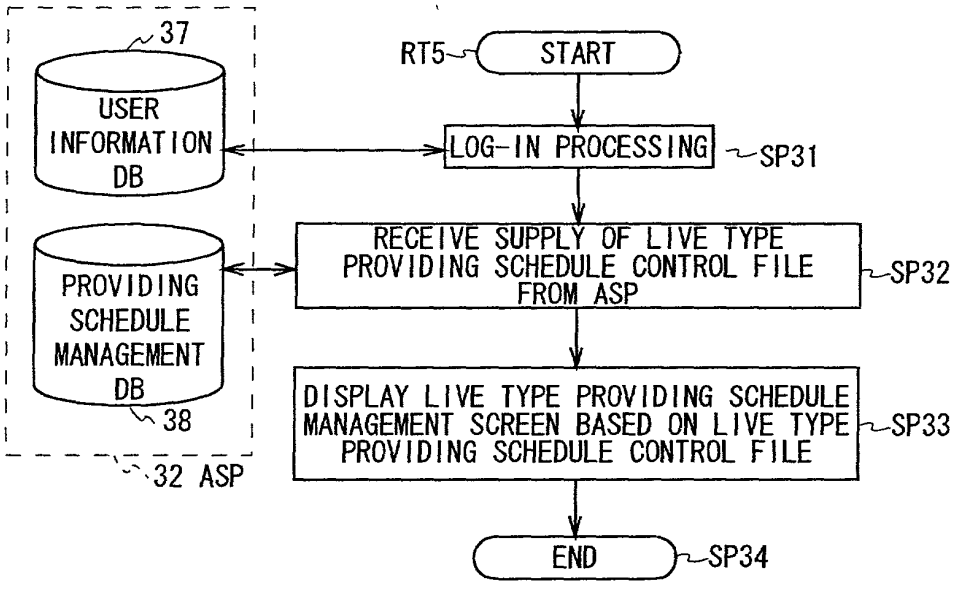
37
USER INFORMATION DB
PROVIDING SCHEDULE MANAGEMENT DB
38
32 ASP
RT5
START
LOG-IN PROCESSING
SP31
RECEIVE SUPPLY OF LIVE TYPE PROVIDING SCHEDULE CONTROL FILE FROM ASP
SP32
DISPLAY LIVE TYPE PROVIDING SCHEDULE MANAGEMENT SCREEN BASED ON LIVE TYPE PROVIDING SCHEDULE CONTROL FILE
SP33
END
SP34

FIG. 30

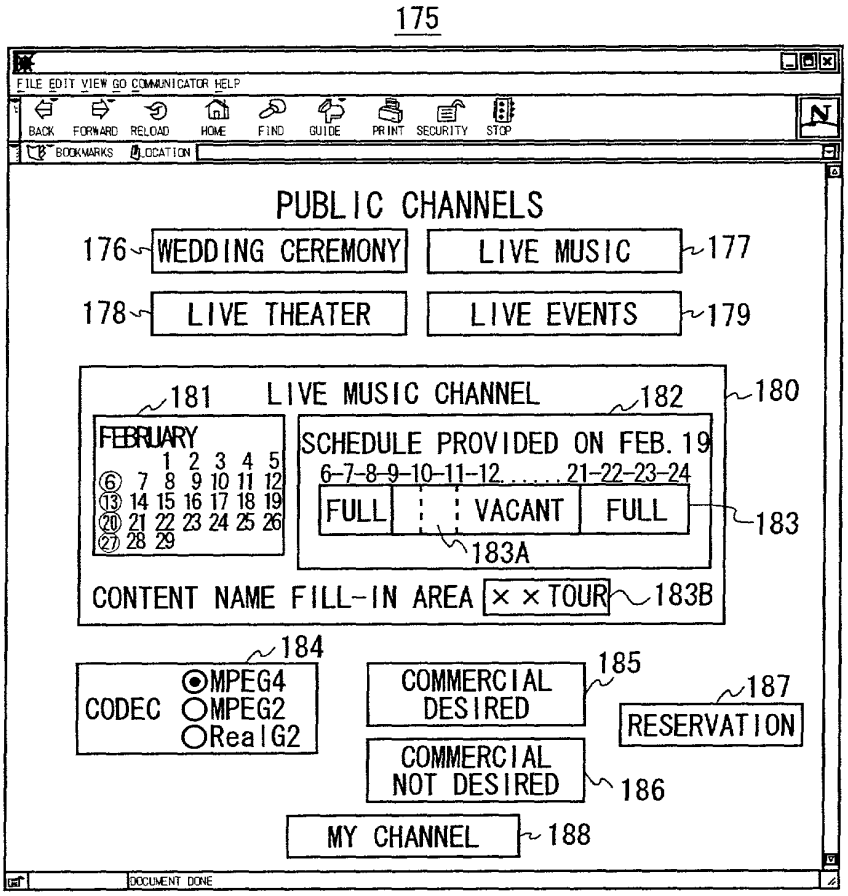

FIG. 31

ISP CONNECTION END	:	*****(ISP NAME)
ASP CHANNEL	:	PUBLIC CHANNEL
CONTENT NAME	:	XX TOUR
CODEC	:	MPEG4
PUBLIC CHANNEL	:	LIVE MUSIC CHANNEL
PROVIDING SCHEDULE	:	TO BE PROVIDED FROM 10:00 FEB. 19
COMMERCIAL REQUEST	:	COMMERCIAL INCLUDED
USER ID	:	KIMUKIMU
PASSWORD	:	****

189

FIG. 32

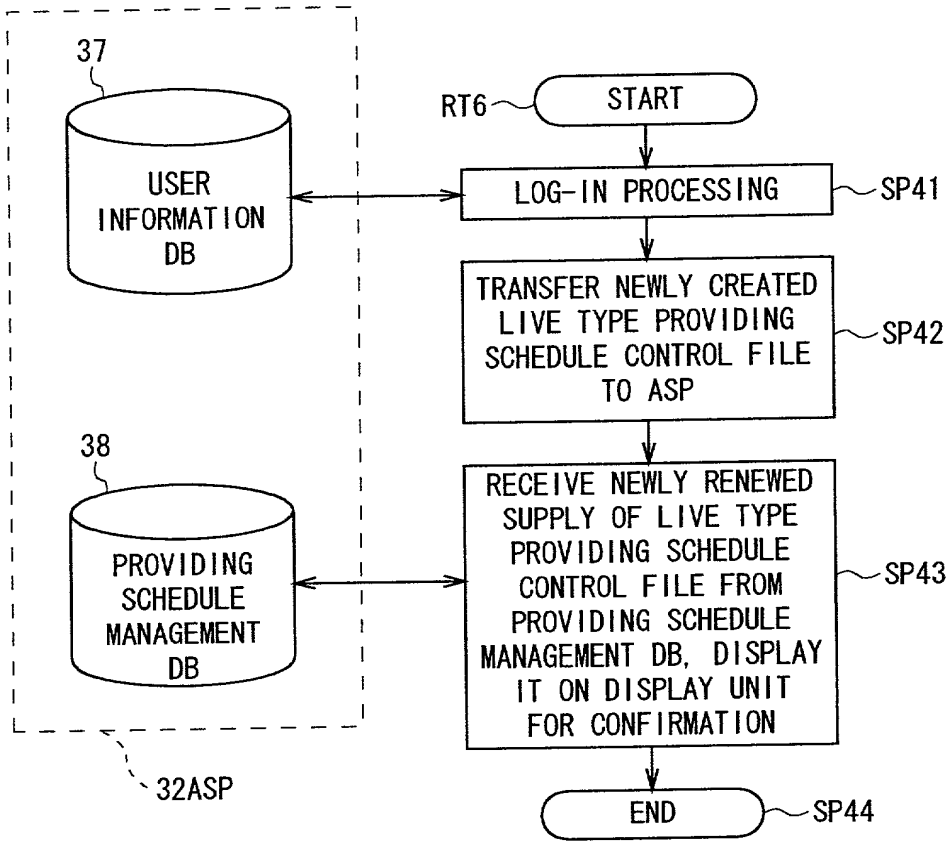
37
USER INFORMATION DB
38
PROVIDING SCHEDULE MANAGEMENT DB
32ASP
RT6
START
LOG-IN PROCESSING
SP41
TRANSFER NEWLY CREATED LIVE TYPE PROVIDING SCHEDULE CONTROL FILE TO ASP
SP42
RECEIVE NEWLY RENEWED SUPPLY OF LIVE TYPE PROVIDING SCHEDULE CONTROL FILE FROM PROVIDING SCHEDULE MANAGEMENT DB, DISPLAY IT ON DISPLAY UNIT FOR CONFIRMATION
SP43
END
SP44

FIG. 33

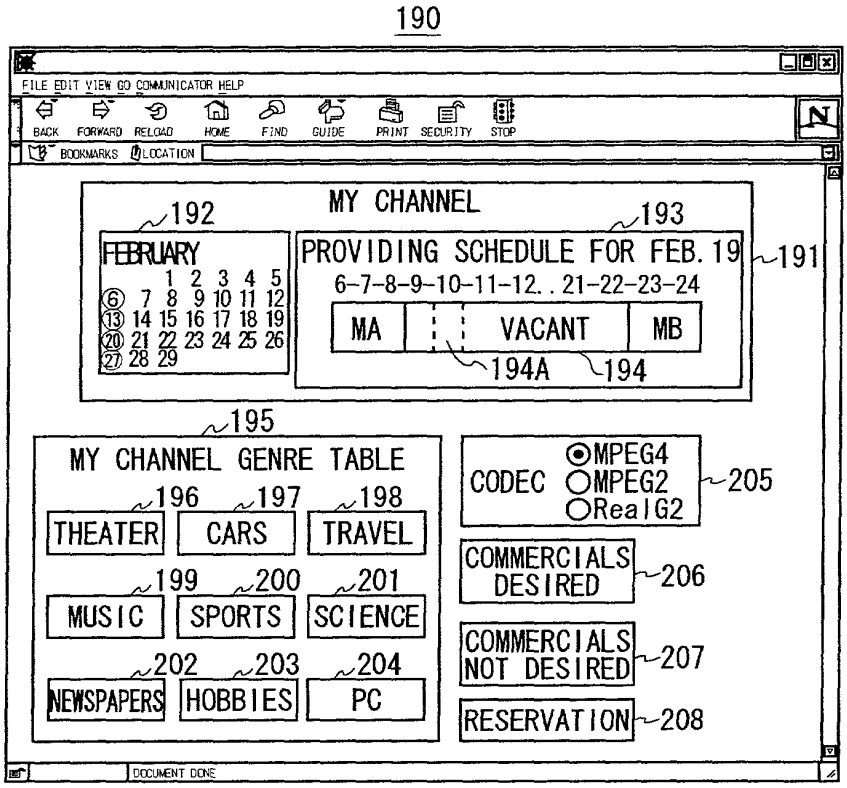

FIG. 34

210

ISP CONNECTION END	: *****(ISP NAME)
ASP CHANNEL	: MY CHANNEL
CODEC	: MPEG4
IMAGE GENRE	: MUSIC
PROVIDING SCHEDULE	: TO BE PROVIDED FROM 10:00 FEB. 19
COMMERCIAL REQUEST	: COMMERCIALS INCLUDED
USER ID	: kimukimu
PASSWORD	: *****

FIG. 35

212

YOUR DESIRED TIME SCHEDULE ALREADY FULLY BOOKED. PLEASE SELECT OTHER TIME SCHEDULE

FIG. 36

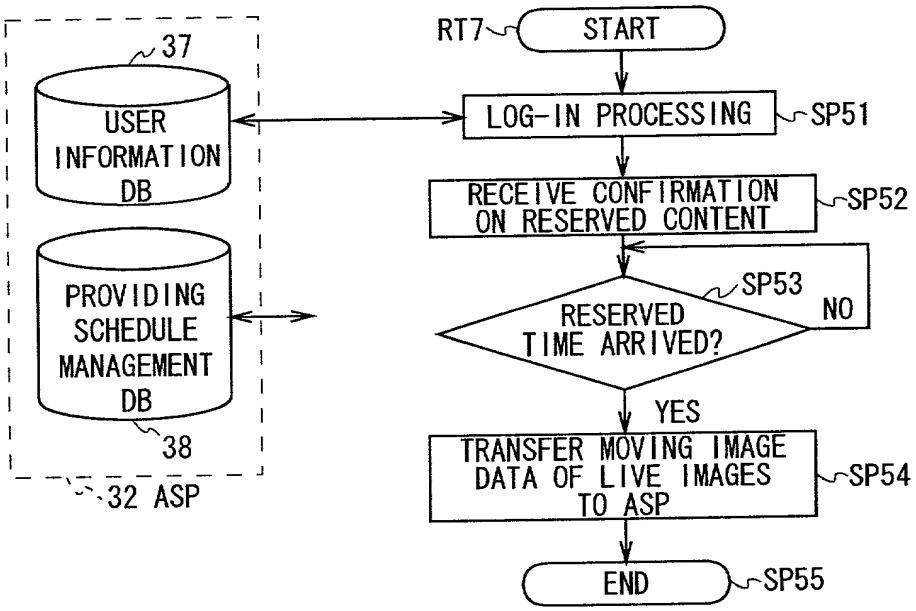

FIG. 37

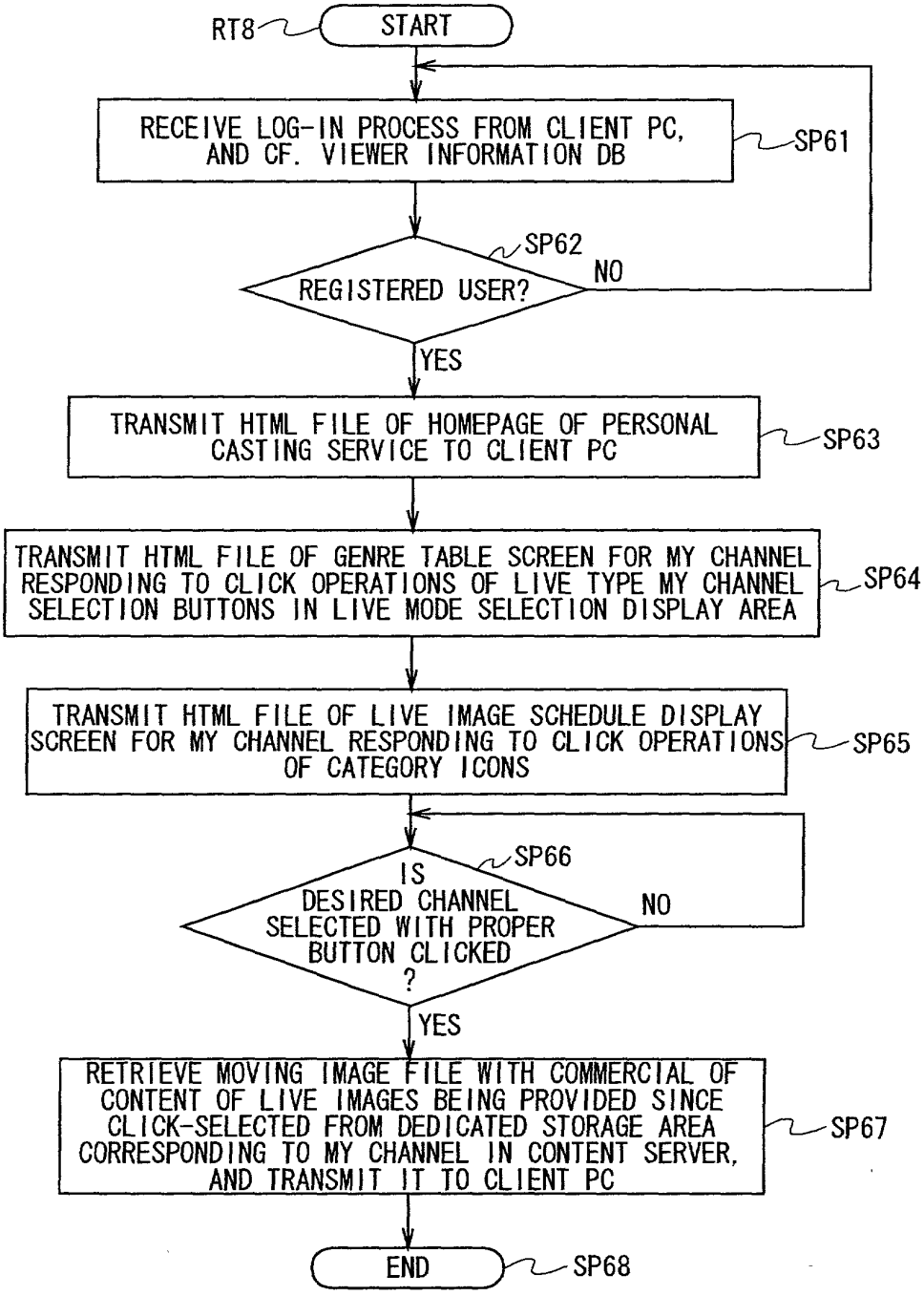
RT8
START
RECEIVE LOG-IN PROCESS FROM CLIENT PC, AND CF. VIEWER INFORMATION DB
SP61
SP62
REGISTERED USER?
NO
YES
TRANSMIT HTML FILE OF HOMEPAGE OF PERSONAL CASTING SERVICE TO CLIENT PC
SP63
TRANSMIT HTML FILE OF GENRE TABLE SCREEN FOR MY CHANNEL RESPONDING TO CLICK OPERATIONS OF LIVE TYPE MY CHANNEL SELECTION BUTTONS IN LIVE MODE SELECTION DISPLAY AREA
SP64
TRANSMIT HTML FILE OF LIVE IMAGE SCHEDULE DISPLAY SCREEN FOR MY CHANNEL RESPONDING TO CLICK OPERATIONS OF CATEGORY ICONS
SP65
SP66
IS DESIRED CHANNEL SELECTED WITH PROPER BUTTON CLICKED ?
NO
YES
RETRIEVE MOVING IMAGE FILE WITH COMMERCIAL OF CONTENT OF LIVE IMAGES BEING PROVIDED SINCE CLICK-SELECTED FROM DEDICATED STORAGE AREA CORRESPONDING TO MY CHANNEL IN CONTENT SERVER, AND TRANSMIT IT TO CLIENT PC
SP67
END
SP68

FIG. 38

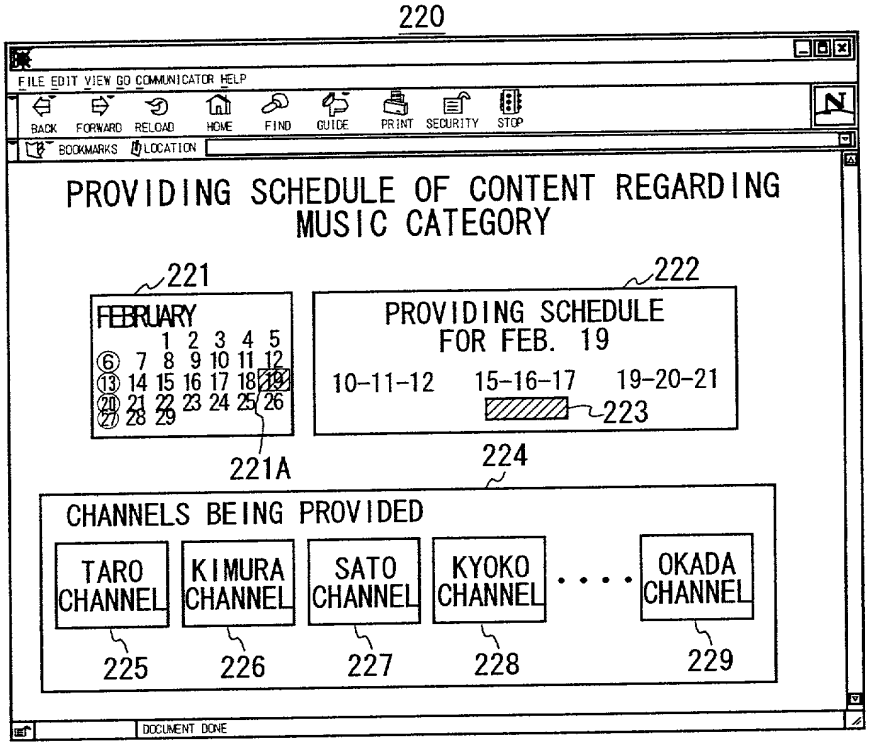
220
FILE EDIT VIEW GO COMMUNICATOR HELP
BACK FORWARD RELOAD HOME FIND GUIDE PRINT SECURITY STOP
BOOKMARKS LOCATION
PROVIDING SCHEDULE OF CONTENT REGARDING MUSIC CATEGORY
221
FEBRUARY
1 2 3 4 5
6 7 8 9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29
221A
222
PROVIDING SCHEDULE FOR FEB. 19
10-11-12 15-16-17 19-20-21
223
224
CHANNELS BEING PROVIDED
TARO CHANNEL
KIMURA CHANNEL
SATO CHANNEL
KYOKO CHANNEL
OKADA CHANNEL
225 226 227 228 229
DOCUMENT DONE

FIG. 39

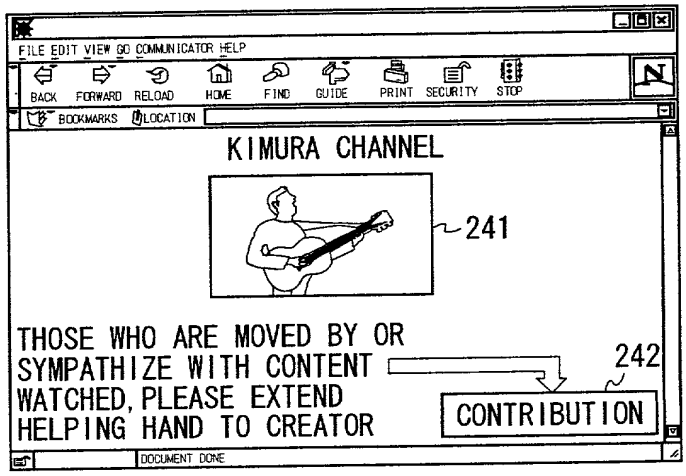
240
FILE EDIT VIEW GO COMMUNICATOR HELP
BACK FORWARD RELOAD HOME FIND GUIDE PRINT SECURITY STOP
BOOKMARKS LOCATION
KIMURA CHANNEL
241
THOSE WHO ARE MOVED BY OR SYMPATHIZE WITH CONTENT WATCHED, PLEASE EXTEND HELPING HAND TO CREATOR
242
CONTRIBUTION
DOCUMENT DONE

FIG. 40

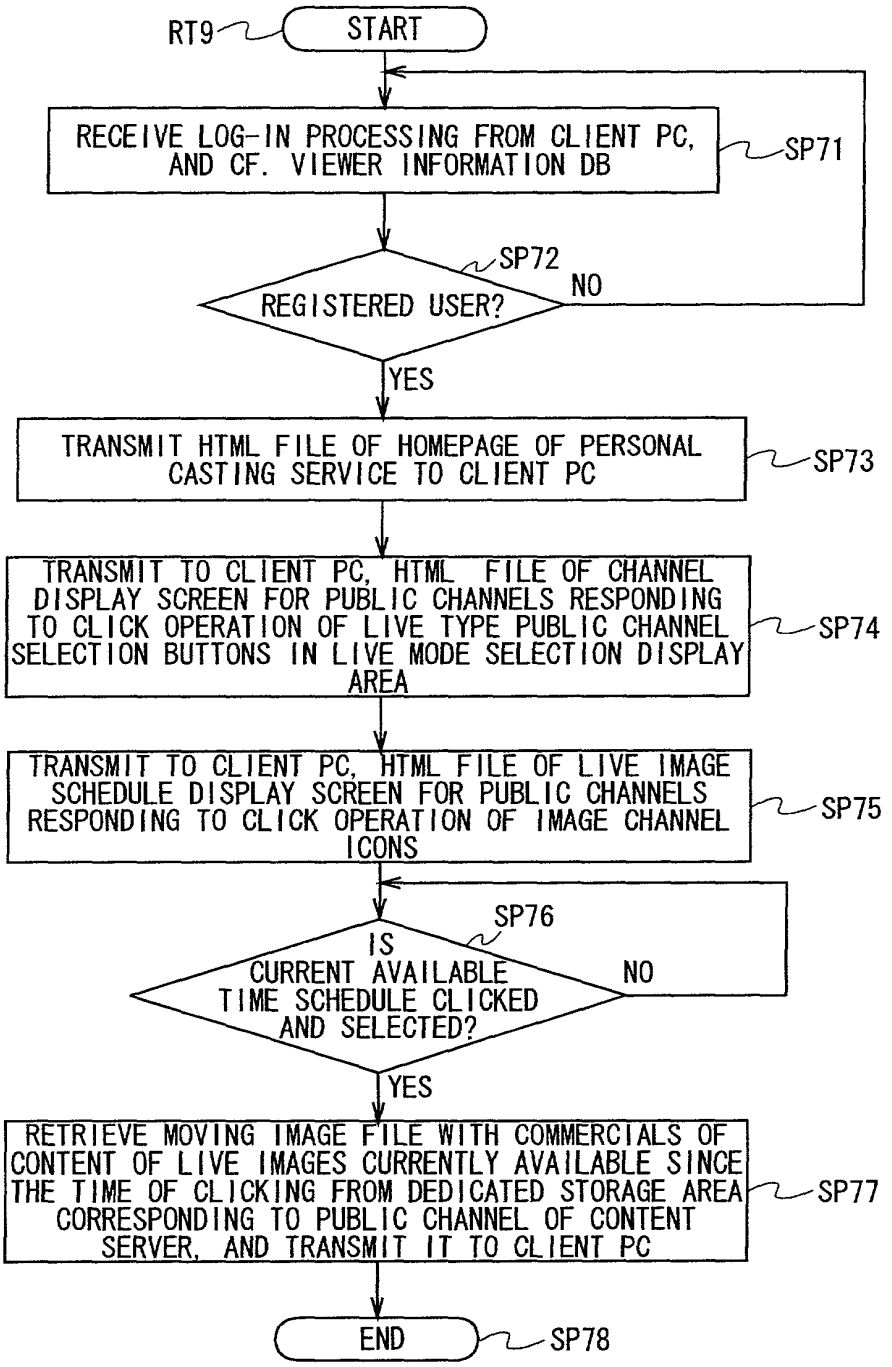
RT9
START
RECEIVE LOG-IN PROCESSING FROM CLIENT PC, AND CF. VIEWER INFORMATION DB
SP71
SP72
REGISTERED USER?
NO
YES
TRANSMIT HTML FILE OF HOMEPAGE OF PERSONAL CASTING SERVICE TO CLIENT PC
SP73
TRANSMIT TO CLIENT PC, HTML FILE OF CHANNEL DISPLAY SCREEN FOR PUBLIC CHANNELS RESPONDING TO CLICK OPERATION OF LIVE TYPE PUBLIC CHANNEL SELECTION BUTTONS IN LIVE MODE SELECTION DISPLAY AREA
SP74
TRANSMIT TO CLIENT PC, HTML FILE OF LIVE IMAGE SCHEDULE DISPLAY SCREEN FOR PUBLIC CHANNELS RESPONDING TO CLICK OPERATION OF IMAGE CHANNEL ICONS
SP75
SP76
IS CURRENT AVAILABLE TIME SCHEDULE CLICKED AND SELECTED?
NO
YES
RETRIEVE MOVING IMAGE FILE WITH COMMERCIALS OF CONTENT OF LIVE IMAGES CURRENTLY AVAILABLE SINCE THE TIME OF CLICKING FROM DEDICATED STORAGE AREA CORRESPONDING TO PUBLIC CHANNEL OF CONTENT SERVER, AND TRANSMIT IT TO CLIENT PC
SP77
END
SP78

FIG. 41

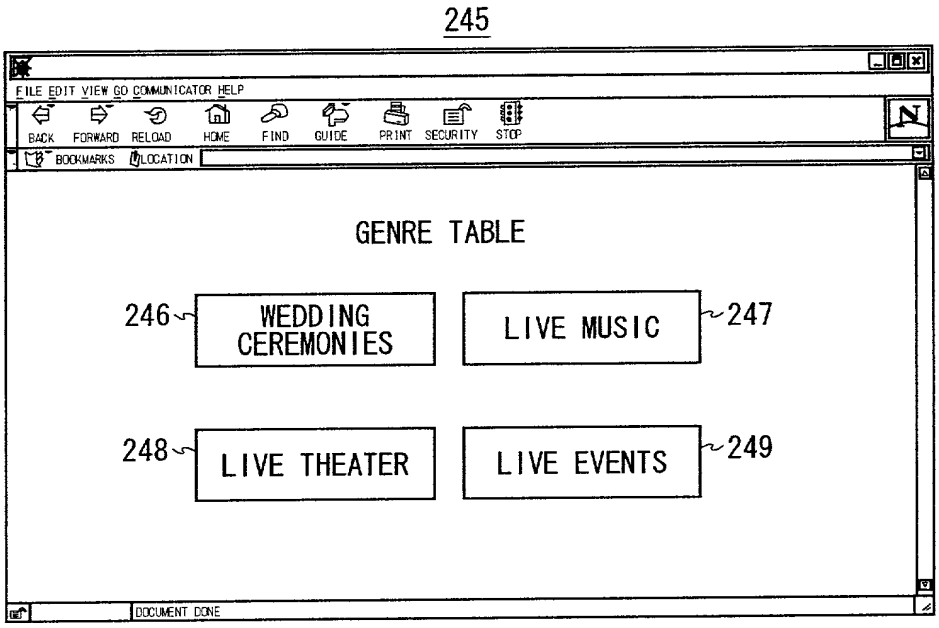
245
FILE EDIT VIEW GO COMMUNICATOR HELP
BACK FORWARD RELOAD HOME FIND GUIDE PRINT SECURITY STOP
BOOKMARKS LOCATION
GENRE TABLE
246
WEDDING CEREMONIES
LIVE MUSIC
247
248
LIVE THEATER
LIVE EVENTS
249
DOCUMENT DONE

FIG. 42

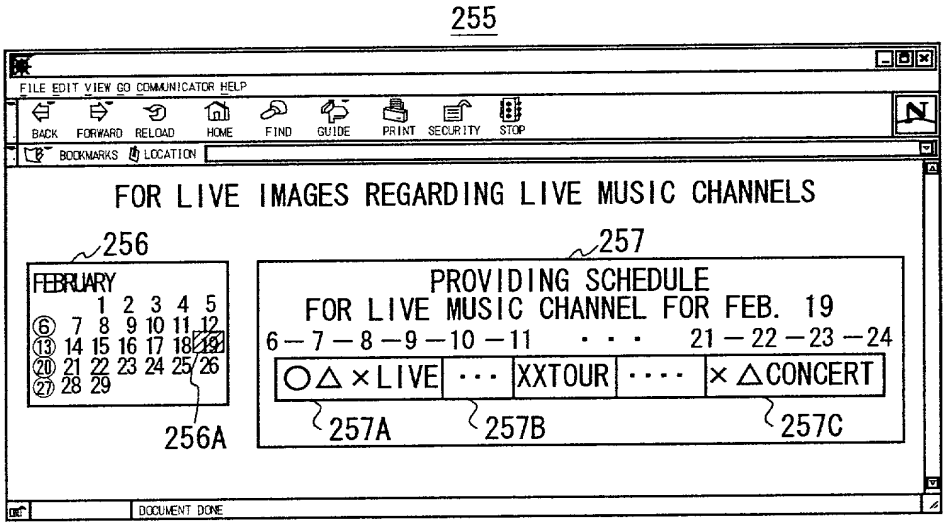
255
FILE EDIT VIEW GO COMMUNICATOR HELP
BACK FORWARD RELOAD HOME FIND GUIDE PRINT SECURITY STOP
BOOKMARKS LOCATION
FOR LIVE IMAGES REGARDING LIVE MUSIC CHANNELS
256
FEBRUARY
1 2 3 4 5
6 7 8 9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29
256A
257
PROVIDING SCHEDULE
FOR LIVE MUSIC CHANNEL FOR FEB. 19
6 — 7 — 8 — 9 — 10 — 11 · · · 21 — 22 — 23 — 24
○△×LIVE
···
XXTOUR
····
×△CONCERT
257A
257B
257C
DOCUMENT DONE

FIG. 43

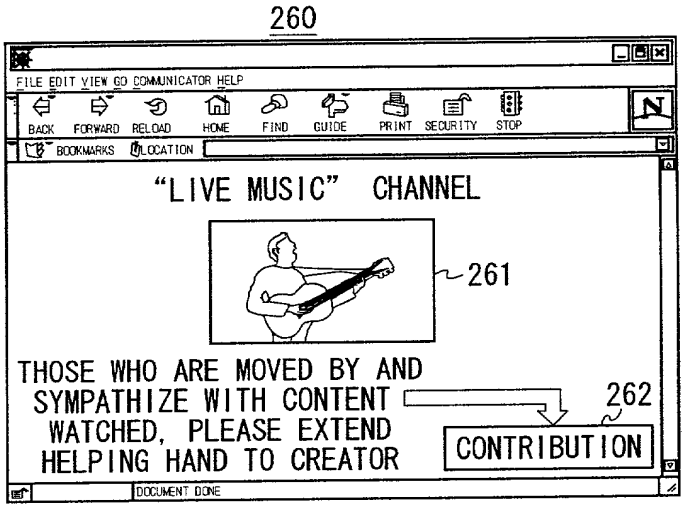
260
FILE EDIT VIEW GO COMMUNICATOR HELP
BACK FORWARD RELOAD HOME FIND GUIDE PRINT SECURITY STOP
BOOKMARKS LOCATION
"LIVE MUSIC" CHANNEL
261
THOSE WHO ARE MOVED BY AND SYMPATHIZE WITH CONTENT WATCHED, PLEASE EXTEND HELPING HAND TO CREATOR
262
CONTRIBUTION
DOCUMENT DONE

FIG. 44

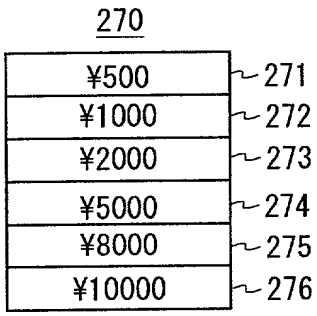
270
¥500
271
¥1000
272
¥2000
273
¥5000
274
¥8000
275
¥10000
276

FIG. 45

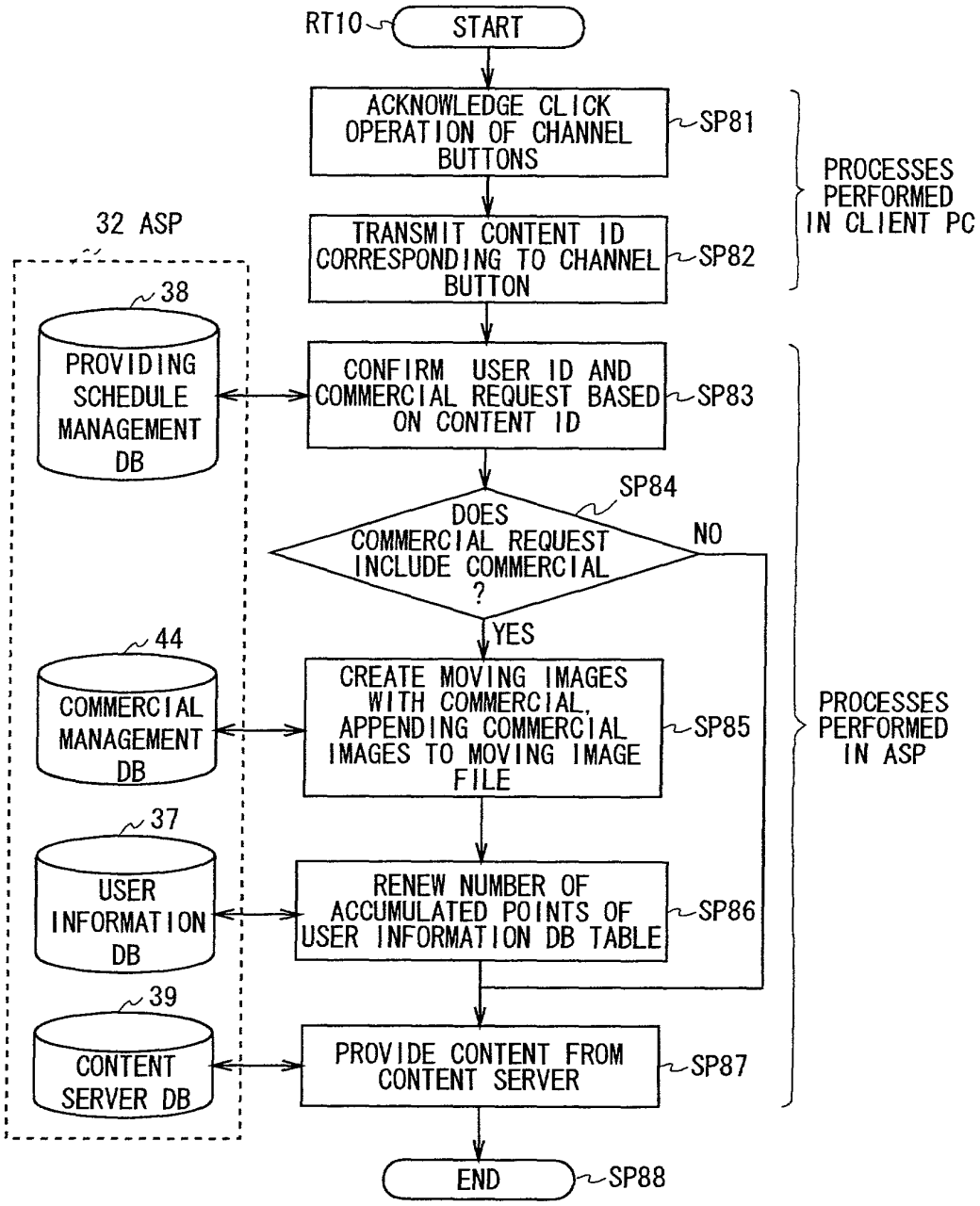
RT10
START
ACKNOWLEDGE CLICK OPERATION OF CHANNEL BUTTONS
SP81
TRANSMIT CONTENT ID CORRESPONDING TO CHANNEL BUTTON
SP82
PROCESSES PERFORMED IN CLIENT PC
32 ASP
38
PROVIDING SCHEDULE MANAGEMENT DB
CONFIRM USER ID AND COMMERCIAL REQUEST BASED ON CONTENT ID
SP83
SP84
DOES COMMERCIAL REQUEST INCLUDE COMMERCIAL ?
NO
YES
44
COMMERCIAL MANAGEMENT DB
CREATE MOVING IMAGES WITH COMMERCIAL, APPENDING COMMERCIAL IMAGES TO MOVING IMAGE FILE
SP85
37
USER INFORMATION DB
RENEW NUMBER OF ACCUMULATED POINTS OF USER INFORMATION DB TABLE
SP86
39
CONTENT SERVER DB
PROVIDE CONTENT FROM CONTENT SERVER
SP87
PROCESSES PERFORMED IN ASP
END
SP88

FIG. 46

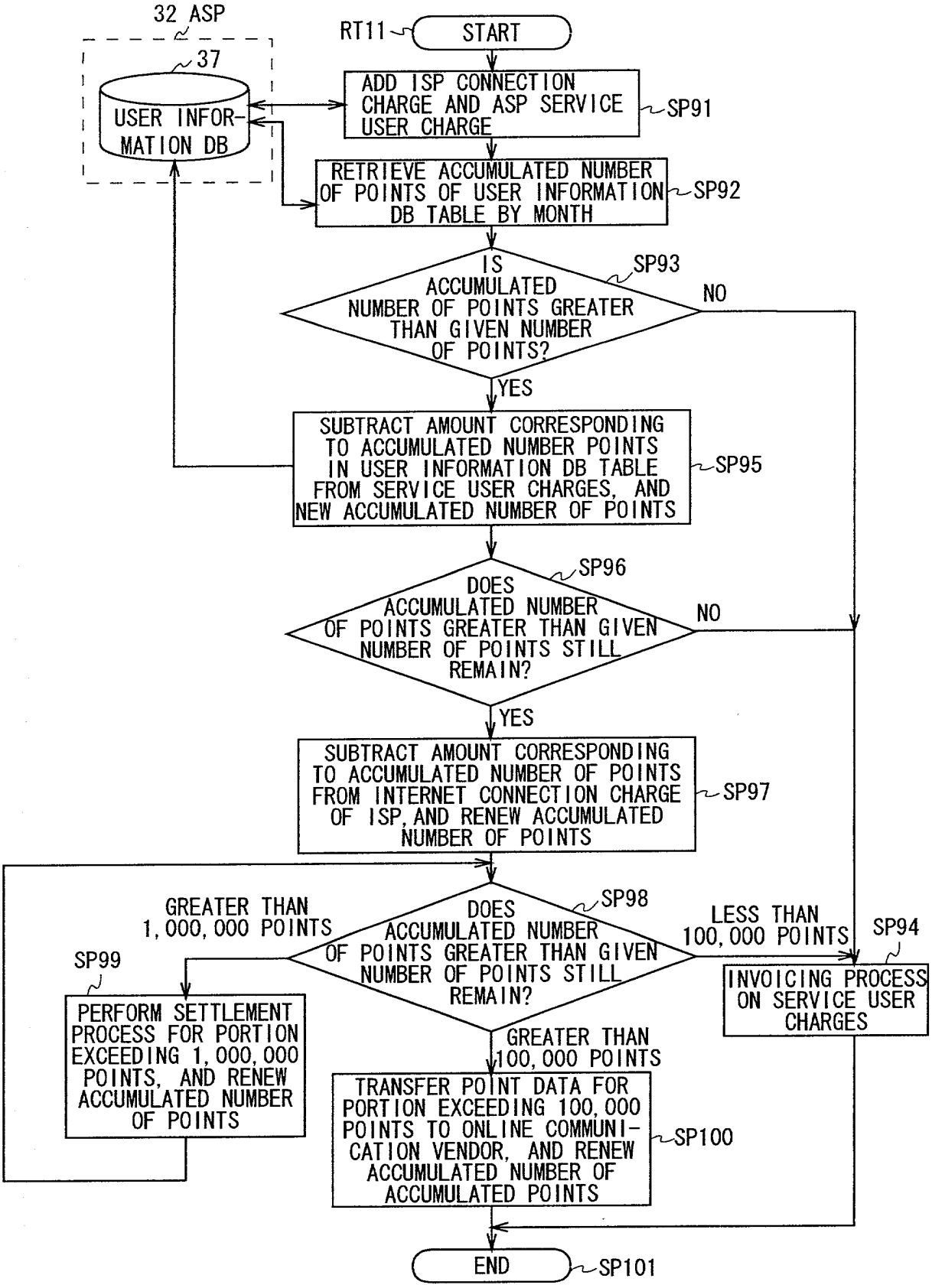
32 ASP
37
USER INFOR-MATION DB
RT11
START
ADD ISP CONNECTION CHARGE AND ASP SERVICE USER CHARGE
SP91
RETRIEVE ACCUMULATED NUMBER OF POINTS OF USER INFORMATION DB TABLE BY MONTH
SP92
IS ACCUMULATED NUMBER OF POINTS GREATER THAN GIVEN NUMBER OF POINTS?
SP93
NO
YES
SUBTRACT AMOUNT CORRESPONDING TO ACCUMULATED NUMBER POINTS IN USER INFORMATION DB TABLE FROM SERVICE USER CHARGES, AND NEW ACCUMULATED NUMBER OF POINTS
SP95
DOES ACCUMULATED NUMBER OF POINTS GREATER THAN GIVEN NUMBER OF POINTS STILL REMAIN?
SP96
NO
YES
SUBTRACT AMOUNT CORRESPONDING TO ACCUMULATED NUMBER OF POINTS FROM INTERNET CONNECTION CHARGE OF ISP, AND RENEW ACCUMULATED NUMBER OF POINTS
SP97
DOES ACCUMULATED NUMBER OF POINTS GREATER THAN GIVEN NUMBER OF POINTS STILL REMAIN?
SP98
GREATER THAN 1,000,000 POINTS
SP99
PERFORM SETTLEMENT PROCESS FOR PORTION EXCEEDING 1,000,000 POINTS, AND RENEW ACCUMULATED NUMBER OF POINTS
LESS THAN 100,000 POINTS
SP94
INVOICING PROCESS ON SERVICE USER CHARGES
GREATER THAN 100,000 POINTS
TRANSFER POINT DATA FOR PORTION EXCEEDING 100,000 POINTS TO ONLINE COMMUNI-CATION VENDOR, AND RENEW ACCUMULATED NUMBER OF ACCUMULATED POINTS
SP100
END
SP101

FIG. 47